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# Module 5

## VSMP Process



# VSMP Process

## 1. SWPPP preparation

What are the 4 components of the SWPPP?

1. Approved ESC plan
2. Approved stormwater management plan
3. Pollution prevention plan
4. Description of additional control measures to meet TMDL (if required)



# VSMP Process

Don't forget the long-term maintenance agreement for permanent stormwater management facilities!





## VSMP Process

- Operator submits ESC plan to VESCP authority for review and approval
- Operator submits stormwater management plan to VSMP authority for review and approval

## VSMP Process

- How long does the VSMP authority have to determine the completeness of a stormwater management plan?
  - 15 days
- How must the VSMP authority notify the applicant of its decision?
  - Electronically or in writing

## VSMP Process

- If a plan is complete and the applicant has been notified within 15 days of submission, how long does the VSMP authority have for plan review?
  - 60 days from notification

## VSMP Process

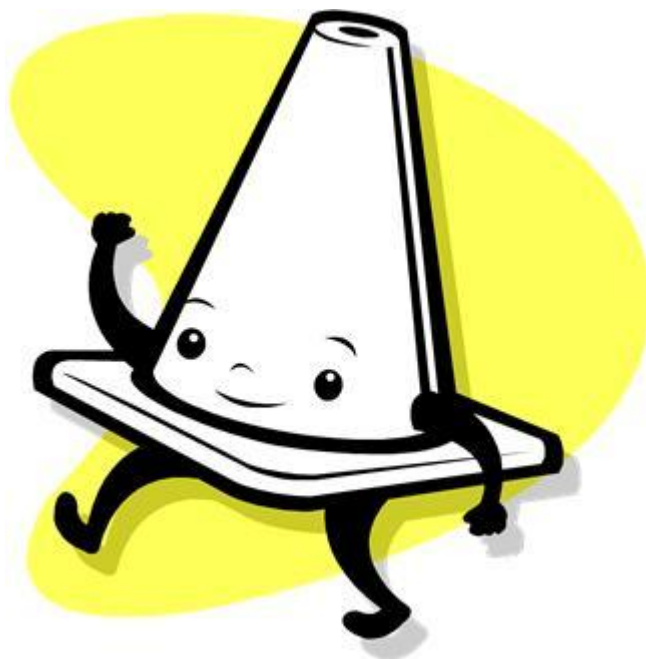
- Operator must submit a complete and accurate registration statement and pay any permit fees
- By signing the registration statement, the operator is certifying what has been prepared?
  - SWPPP

## VSMP Process

- Before permit coverage can be issued, the VSMP program administrator must confirm:
  - ✓ Registration statement is accurate and complete
  - ✓ Stormwater management plan has been approved
  - ✓ Long-term maintenance agreement has been approved
  - ✓ ESC plan has been approved
  - ✓ All fees have been paid

# VSMP Process

8. VSMP authority  
approval to start  
construction

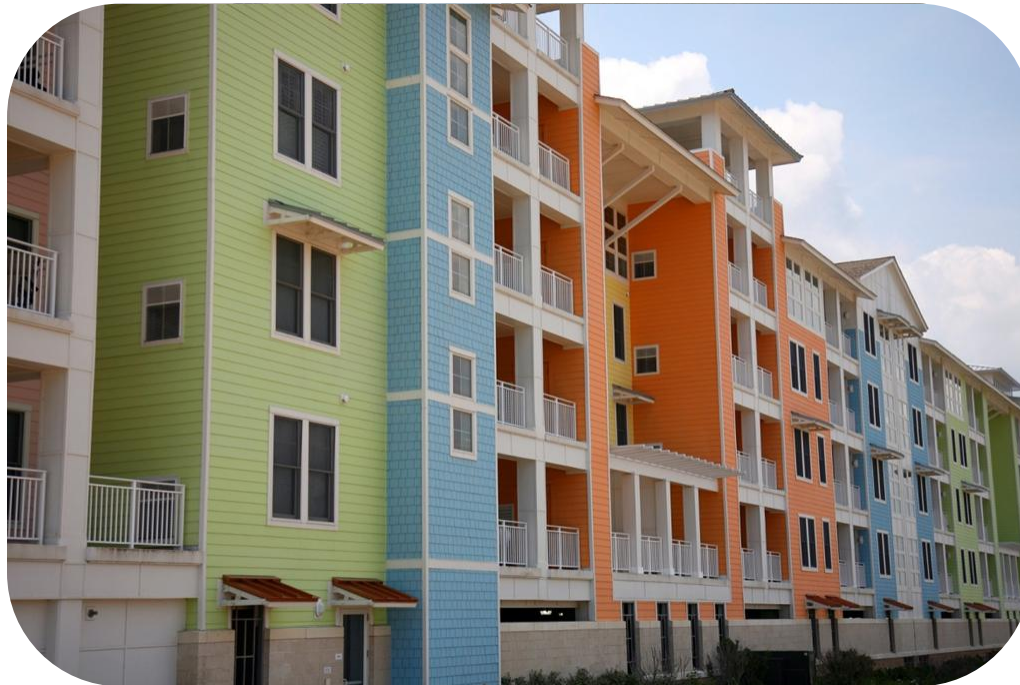


## VSMP Process

- During construction:
  - VSMP authority must periodically inspect the LDA for compliance with approved ESC and stormwater management plans
  - VSMP authority confirms operator has updated, modified, and implemented the P2 plan and any additional control measures needed to meet a TMDL

# VSMP Process

## 10. Construction ends





# VSMP Process

## 11. Records and documentation

- Records and documentation:
  - Certified project record drawings “as-built”
  - Inspection and enforcement records
  - Registration statements
- Submit to DEQ by October 1st each year:
  - Exceptions granted
  - Enforcement actions
  - Specifics pertaining to the BMPs installed over the course of the year



## VSMP Process

### 12. Return bonds or securities

- Within 60 days of completing the requirements of the permit conditions, VSMP authority returns or terminates any bonds or securities provided by the operator at the onset of the project

## VSMP Process

- How often must post-construction BMP inspections occur?
  - At least once every five years to ensure they are being adequately maintained as designed





# DEQ Resources

Virginia Environmental Geographic  
Information System (VEGIS) and TMDL Reports

[www.deq.virginia.gov](http://www.deq.virginia.gov)

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[My DEQ](#)[Permits](#)[Laws & Regulations](#)[Programs](#)[Locations](#)[About Us](#)[Connect With DEQ](#)A scenic landscape photograph of rolling mountains in Virginia, with the foreground showing autumn-colored trees. The text "Protecting Virginia's Environment" is overlaid in a white serif font.

## Protecting Virginia's Environment

### Featured Topics

- Draft Chesapeake Bay watershed agreement
- DEQ's 20th Anniversary
- Freedom of Information Act
- Stormwater
- Recycling & Litter Prevention
- Uranium Working Group

### My DEQ

- Businesses
- Virginia Residents
- Educators
- Localities
- Vendors

### DEQ charts environmental improvements

During the past several years, the health of Virginia's environment has realized notable improvements. DEQ has summarized these achievements in areas such as water quality, air quality, land protection and other environmental programs. Read more about the strength of [Virginia's environment](#) and other actions DEQ is taking to protect our natural resources.

### Resources & Tools

### Featured Publications

- [Recycling Rate Report](#)
- [Virginia CZM Magazine](#)
- [Ambient Air Monitoring Data Report](#)
- [Solid Waste Report](#)
- [DEQ 20th Anniversary Report](#)
- [2008 Climate Change Commission Report](#)
- [Toxics Release Inventory Report](#)

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- [News Releases](#)



# DEQ VEGIS

DEQ's Geographic Information System



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Laws &amp; Regulations

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Community Involvement

Environmental Information

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Freedom of Information Act

Long-Range Priorities

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Training &amp; Certification

VEGIS

## Protecting Virginia's Environment

### Featured Topics

- Draft Chesapeake Bay watershed agreement
- DEQ's 20th Anniversary
- Information Act
- Prevention
- Uranium working Group

## 2. VEGIS

### 3. Find VEGIS under "Connect With DEQ"; Select Dataset (2012 Assessment)

### Featured Publications

- Recycling Rate Report
- VEGIS Datasets
- 2012 WQM Assessment GIS Applications
- 2008 Climate Change Commission Report
- Toxics Release Inventory Report



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Connect With DEQ > VEGIS > 2012 WQM Assessment GIS Applications

VEGIS Datasets

> 2012 WQM Assessment  
GIS Applications

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## 2012 Water Quality Assessment GIS Applications

- 2012 Any Use Map Service
- 2012 Aquatic Life Use Map Service
- 2012 Fish Consumption Use Map Service
- 2012 Public Water Supply Use Map Service
- 2012 Recreation Use Map Service
- 2012 Shellfishing Use Map Service
- 2012 Wildlife Use Map Service

Click for 2012  
Approved Water  
Quality Assessment -  
Any Beneficial Use



Virginia DEQ Home > VEGIS Home > Web Map

Search for an address 629 East Main Street Richmond Search

Enter address  
(include  
"VA", and hit  
"Search")

Map Results

Tools Share Add Map Layers Zoom To State

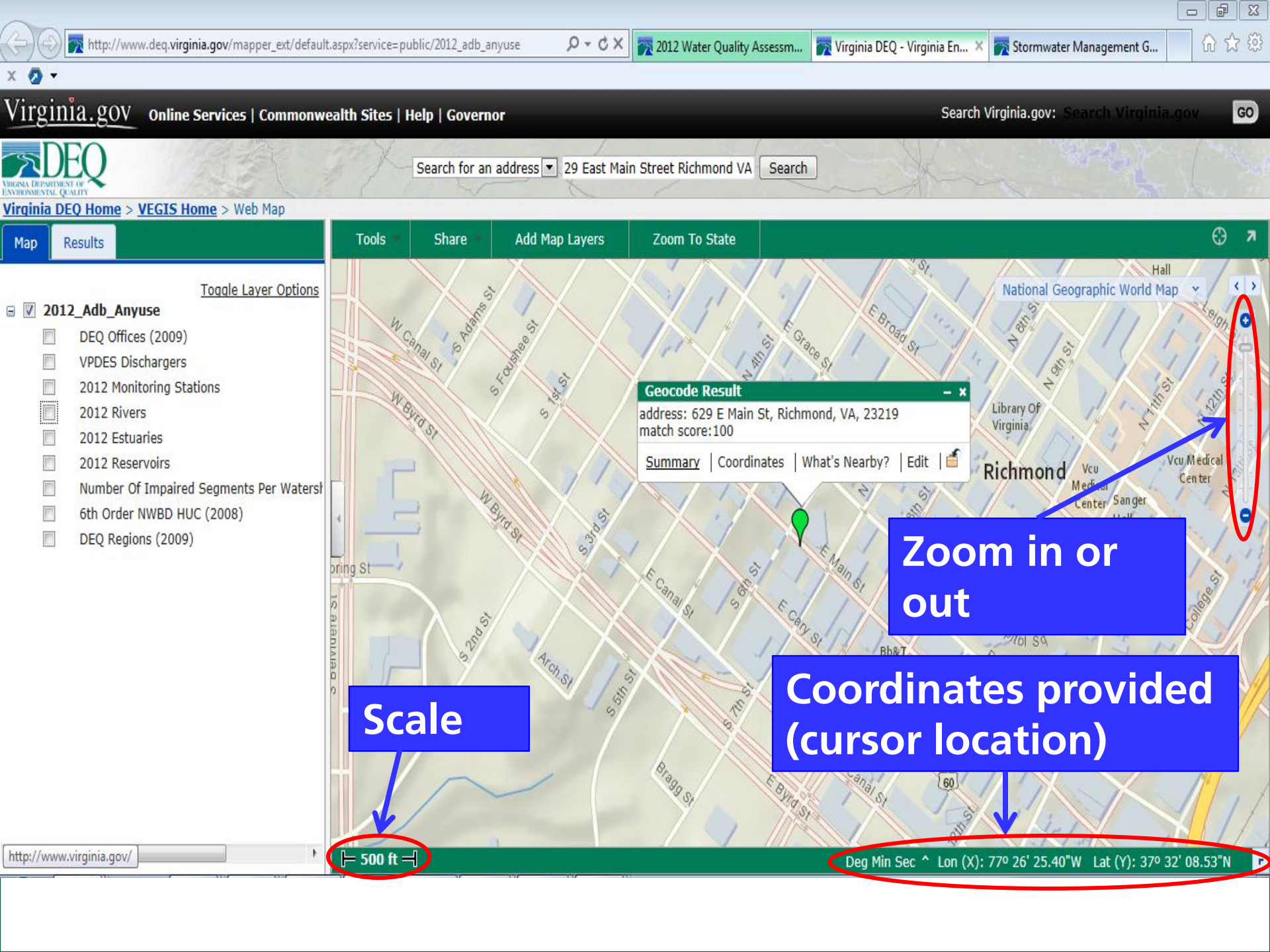
Toggle Layer Options

☒ 2012\_Adb\_Anyuse

- ☒ DEQ Offices (2009)
  - ☒ DEQ Central Office
  - ☒ 1 South West Regional Office
  - ☒ 2 Blue Ridge Regional Office
  - ☒ 3 Northern Regional Office
  - ☒ 4 Piedmont Regional Office
  - ☒ 5 Tidewater Regional Office
  - ☒ 6 Valley Regional Office

- ☐ VPDES Dischargers
- ☐ 2012 Monitoring Stations
- ☐ 2012 Rivers
- ☐ 2012 Estuaries
- ☐ 2012 Reservoirs
- ☐ Number Of Impaired Segments Per Waterst
- ☐ 6th Order NWBD HUC (2008)
- ☒ DEQ Regions (2009)







Search for an address 29 East Main Street Richmond VA Search

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

Tools Share Add Map Layers Zoom To State

Toggle Layer Options

2012\_Adb\_Anyuse

- ☐ DEQ Offices (2009)
- ☐ VPDES Dischargers
- ☐ 2012 Monitoring Stations
- ☒ 2012 Rivers
- ☐ 2012 Estuaries
- ☐ 2012 Reservoirs
- ☐ Number Of Impaired Segments Per Watershed
- ☐ 6th Order NWBD HUC (2008)
- ☐ DEQ Regions (2009)

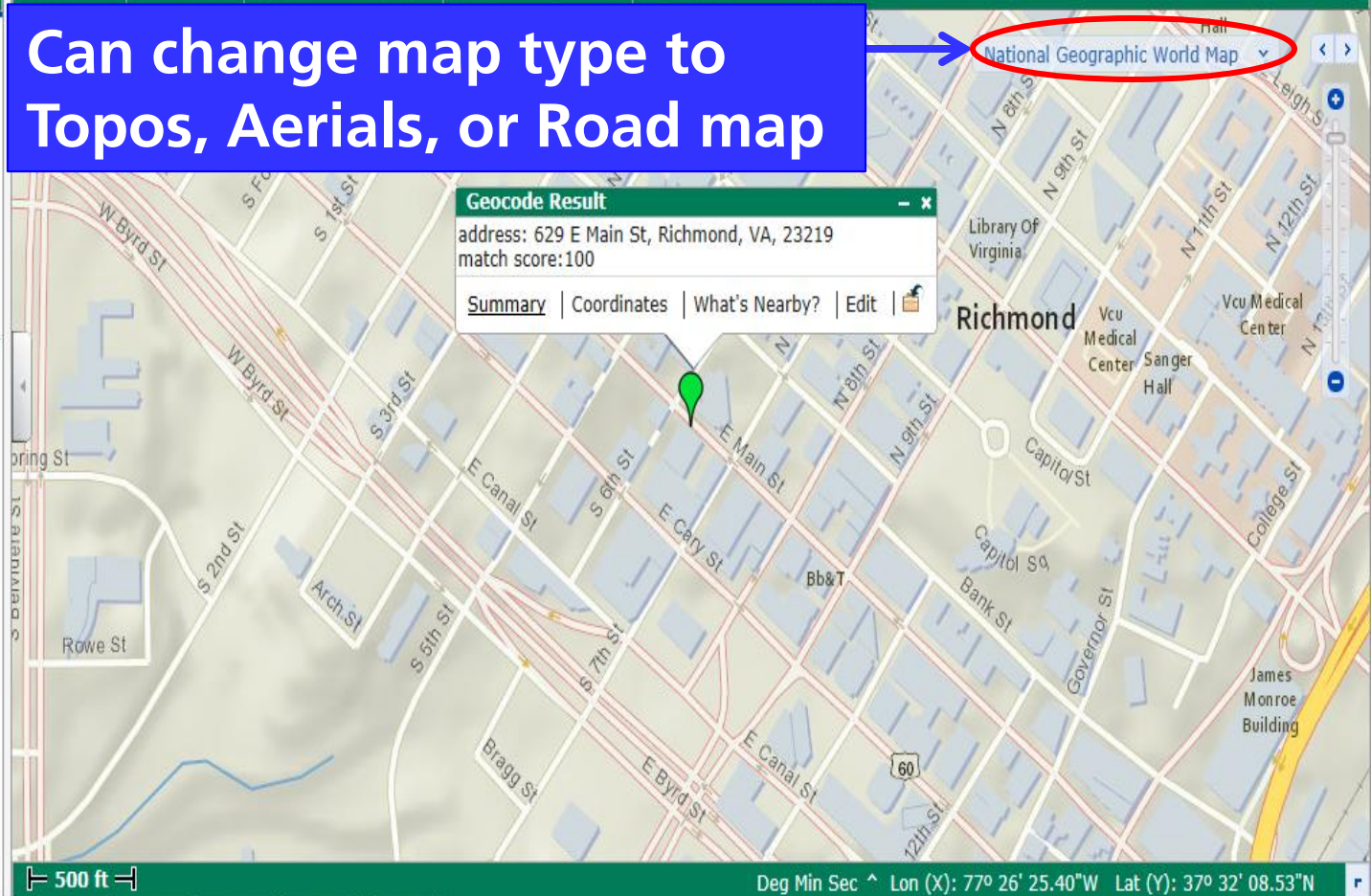
Can change map type to  
Topos, Aerials, or Road map

National Geographic World Map

Geocode Result

address: 629 E Main St, Richmond, VA, 23219  
match score:100

Summary Coordinates What's Nearby? Edit





Search for an address 29 East Main Street Richmond VA Search

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

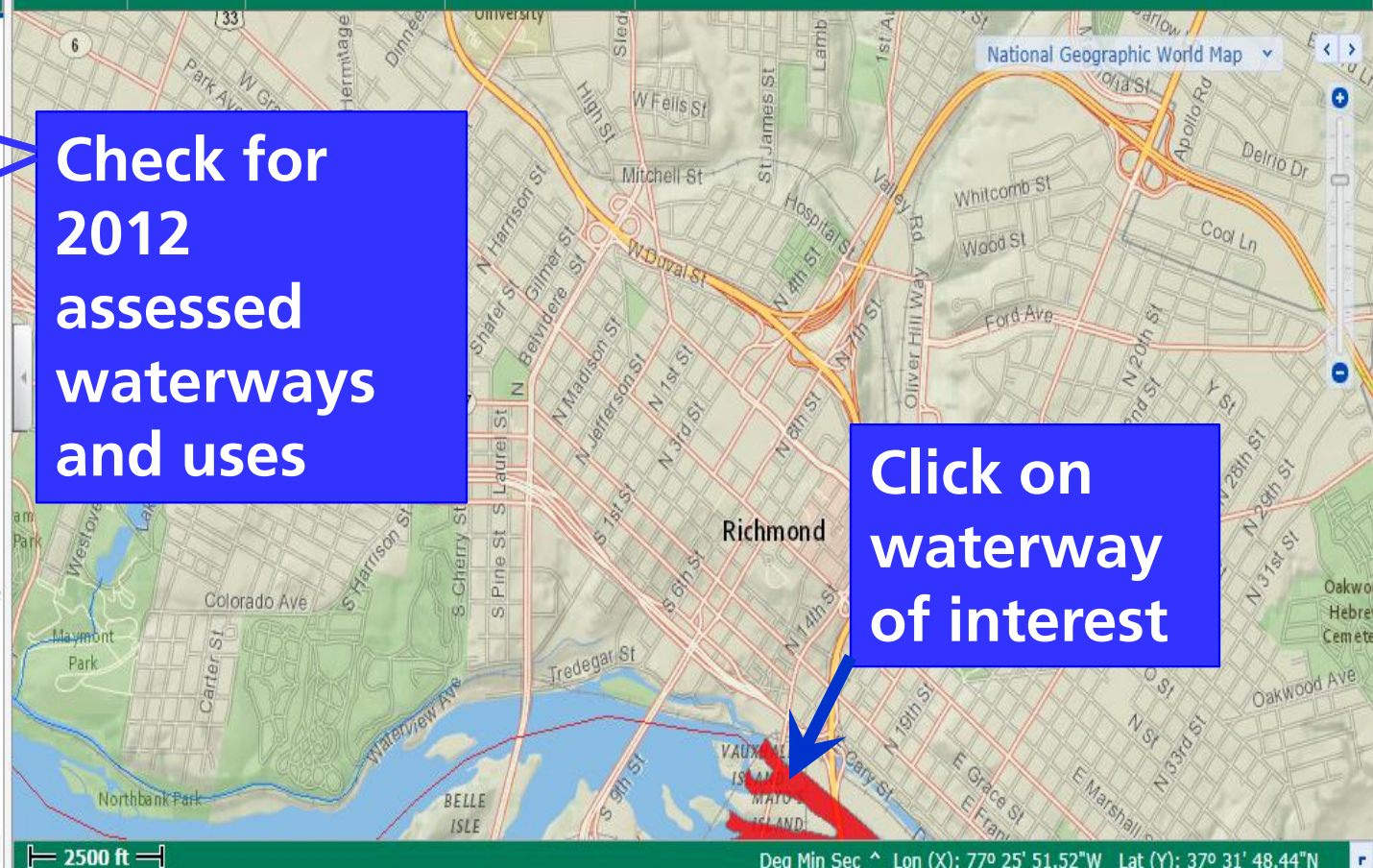
Tools Share Add Map Layers Zoom To State

Toggle Layer Options

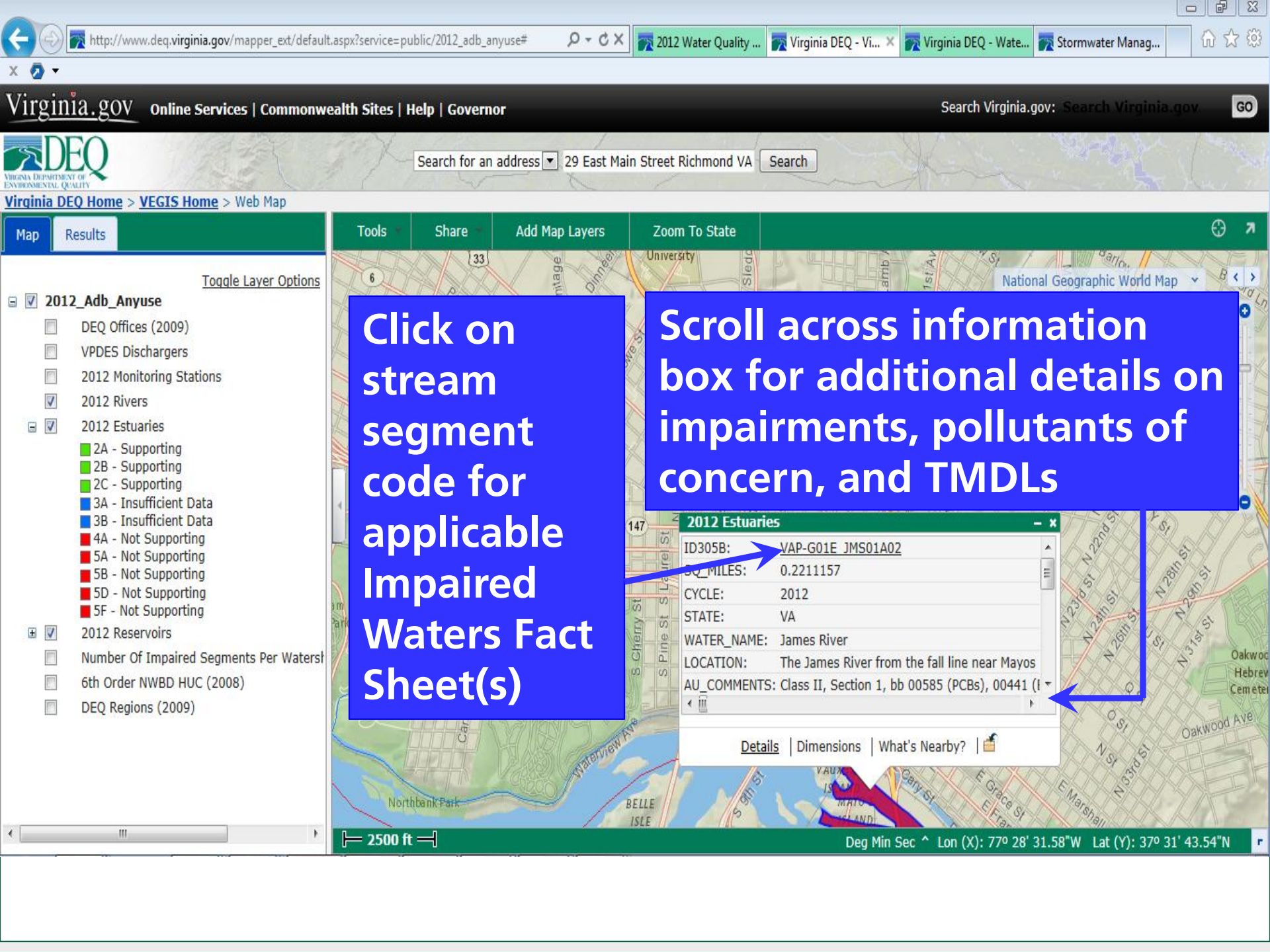
- ☒ 2012\_Adb\_Anyuse
  - ☐ DEQ Offices (2009)
  - ☐ VPDES Dischargers
  - ☐ 2012 Monitoring Stations
  - ☒ 2012 Rivers
  - ☒ 2012 Estuaries
    - ☒ 2A - Supporting
    - ☒ 2B - Supporting
    - ☒ 2C - Supporting
    - ☒ 3A - Insufficient Data
    - ☒ 3B - Insufficient Data
    - ☒ 4A - Not Supporting
    - ☒ 5A - Not Supporting
    - ☒ 5B - Not Supporting
    - ☒ 5D - Not Supporting
    - ☒ 5F - Not Supporting
  - ☒ 2012 Reservoirs
  - ☐ Number Of Impaired Segments Per Watershed
  - ☐ 6th Order NWBD HUC (2008)
  - ☐ DEQ Regions (2009)

Check for  
2012  
assessed  
waterways  
and uses

Click on  
waterway  
of interest



2500 ft Deg Min Sec ^ Lon (X): 77° 25' 51.52"W Lat (Y): 37° 31' 48.44"N



Click on stream segment code for applicable Impaired Waters Fact Sheet(s)

Scroll across information box for additional details on impairments, pollutants of concern, and TMDLs

2012 Estuaries	
ID305B:	VAP-G01E JMS01A02
SQ_MILES:	0.2211157
CYCLE:	2012
STATE:	VA
WATER_NAME:	James River
LOCATION:	The James River from the fall line near Mayos
AU_COMMENTS:	Class II, Section 1, bb 00585 (PCBs), 00441 (I...



# 2012 Impaired Waters

## Category 4 & 5 by 2012 Impaired Area ID\*

### James River Basin

Cause Group Code: JMSTFU-DO-BAY - James River Tidal Freshwater (Upper) Estuary

<b>Location:</b>	The James River Tidal Freshwater Upper estuary, which extends from the fall line to approximately the Appomattox River, including tributaries.
<b>City/County</b>	Charles City Co., Chesterfield Co., Henrico Co., Richmond City
<b>Use(s):</b>	Aquatic Life
<b>Cause(s) / VA Category:</b>	Oxygen, Dissolved / 4A

The mainstem James River from the Appomattox River to the Chickahominy River was originally listed on the 1998 list as fully supporting but threatened of the Aquatic Life Use goal based on chlorophyll a exceedances. During the 1998 cycle, EPA extended the segment upstream to the fall line and downgraded the river to not supporting the Aquatic Life Use, citing nutrient concerns.

In previous cycles, the mainstem James River had acceptable dissolved oxygen levels. In addition the entire tidal freshwater portion (fall line to just above the Chickahominy River) has good benthic community based on the results from the Chesapeake Bay Benthic Index of Biological Community; therefore the James River from the fall line to the oligohaline boundary was considered impaired solely for Nutrients/Eutrophication Biological Indicators (EPA Overlist).

The CB water quality standards were implemented during the 2006 cycle. The 30-day dissolved oxygen criteria was met during the 2006 and 2008 cycles; however, during the 2010 cycle, the segment failed the summer 30-day Open Water dissolved oxygen criteria. The rest-of-year standard was met.

During the 2012 cycle, the Chesapeake Bay TMDL was approved by the EPA on 12/29/2010 and addresses dissolved oxygen and submerged aquatic vegetation impairments throughout the Chesapeake Bay and its tidal tributaries. The upper James River estuary was once again fully supporting of both the Open Water 30-day mean criteria, however EPA policy indicates that it must remain listed until all dissolved oxygen criteria can be assessed, therefore it is Category 4A.

Assessment Unit	Water name	Location Description	Cause Category	Cause Name	Cycle First Listed	TMDL Schedule	Size
VAP-G01E_JMS01A02	James River	The James River from the fall line near Mayos Bridge to river mile 108.76. JMSTFu	4A	Oxygen, Dissolved	2010	2010	0.22
VAP-G01E_JMS02A02	James River	The James River from river mile 108.76 to river mile 100.82. JMSTFu	4A	Oxygen, Dissolved	2010	2010	0.02



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Map Results

Toggle Layer Options

- ☒ 2012\_Adb\_An
- ☐ DEQ Offi
- ☐ VPDES Di
- ☐ 2012 Mor
- ☒ 2012 Rive
- ☒ 2012 Estu
- ☐ 2012 Res
- ☐ Number C
- ☐ 6th Order
- ☐ DEQ Regi

javascript:identify2.open();

Tools

Attribute Search

Identify

Markup

Measure

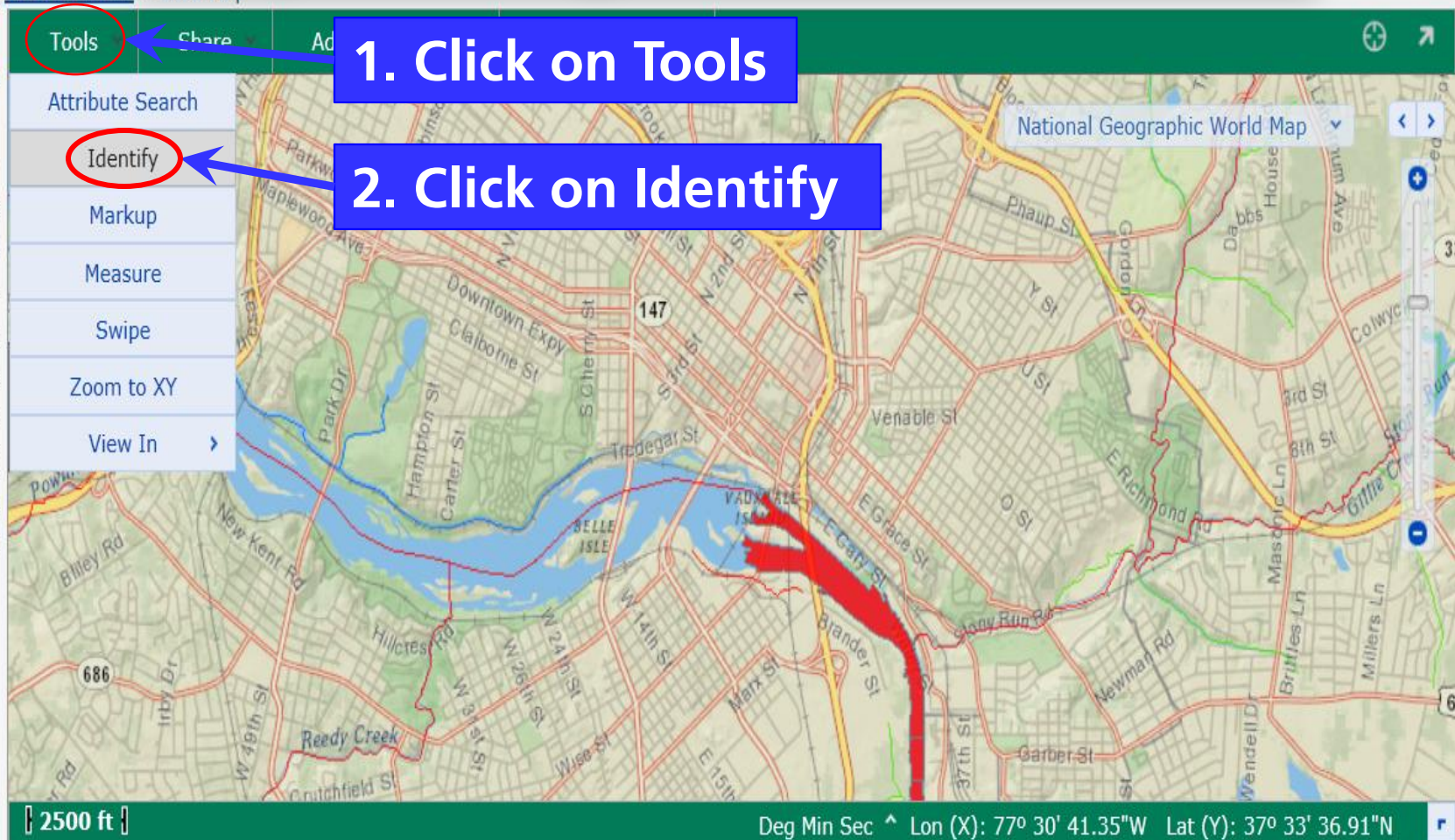
Swipe

Zoom to XY

View In >

1. Click on Tools

2. Click on Identify





# Exporting information

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

Tools Share Add Map Layers Zoom To State

Identify Custom Shape Point **Buffer**

Radius 0.5 Miles

Layer:

- << All Visible >>
- DEQ Offices (2009)
- VPDES Dischargers
- 2012 Monitoring Stations
- 2012 Rivers**
- 2012 Estuaries
- 2012 Reservoirs
- Number of Impaired Segments per Watershed (All Impairments)
- 6th Order NWBD HUC (2008)
- DEQ Regions (2009)

2500 ft

Deg Min Sec ^ Lon (X): 77° 29' 26.58"W Lat (Y): 37° 32' 43.50"N

1. Select Buffer and adjust Radius as needed

2. Select layer(s) one at a time



# Exporting information

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

(3) 2012 Rivers

Tools ID305B

James River  
[more info...](#)

Manchester Canal  
[more info...](#)

Unsegmented Rivers  
in H39  
[more info...](#)

1 of 1

Tools Share Add Map Layers Zoom To State

Identify Custom Shape Point Buffer

Radius 0.5 Miles

Layer: 2012 Rivers

2500 ft

Deg Min Sec ^ Lon (X): 77° 26' 44.67"W Lat (Y): 37° 32' 00.38"N

1. Select area of interest

2. Select Tools to export information



# Exporting information

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

Tools

Share

Add Map Layers

Zoom To State

(3) 2012 Rivers

Tools ID305B

☒ James River  
[more info...](#)

☒ Manchester Canal  
[more info...](#)

☒ Unsegmented Rivers  
in H39  
[more info...](#)

Identify

Custom Shape

Point

Buffer

X

Radius 0.5 Miles

Layer: 2012 Rivers

## Export Results

Your Export Has Completed Successfully

[View Export](#)

To save the file, right click the above link and choose  
"Save Target As..."

View Hyperlink

Save option

1 of 1

2500 ft

Deg Min Sec ^ Lon (X): 77° 26' 44.67"W Lat (Y): 37° 32' 00.38"N



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## VEGIS Datasets

2012 WQM Assessment GIS Applications

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### Contact Us:

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## VEGIS

Discover Virginia's environment through the new VEGIS (pronounced "vee-jis") viewer! This GIS viewer is designed for better performance and new features. A [user manual](#) in Portable Document (PDF) format is available. Available map services and GIS data are described below:

### ■ What's in my backyard?

This application displays cross-media geographical features including petroleum release sites, solid waste facilities, 303D impaired waters, water quality monitoring stations and more. Please contact the [DEQ Geographic Information Systems Administrator](#) for further information regarding these datasets.

### ■ 2012 Impaired Waters (303D Data) Database GIS Applications

This application displays data associated with the [2012 305\(b\)/303\(d\) Water Quality Assessment Integrated Report](#). For more information on the Water Quality Assessment Report, please visit the [2012 Water Quality Assessment and Impaired Waters Report](#) for program information and contacts regarding these mapping applications.

### ■ Community Monitoring Efforts

This application is a partnership effort between the Virginia Water Monitoring Council and DEQ. Please contact [James Beckley](#) for more information regarding this dataset.

### ■ Virginia Coastal GEMS

Developed by the Virginia Coastal Zone Management Program, [Coastal GEMS](#) is a gateway to coastal resource data and maps; coastal laws and policies; and coastal resource facts.

### ■ DEQ GIS Datasets

Available Geographic Information System datasets can be downloaded in ESRI shapefile format.

*Please note: The environmental data contained in these applications are for REFERENCE ONLY and are not certified to be absolutely complete or correct.*



Click for VEGIS  
User Manual



# DEQ TMDL Reports

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## Protecting Virginia's Environment

### North Carolina

Virginia DEQ is... to the coal ash spill... the Dan River... Environmental Protection Agency, Virginia Department of Health, local governments, North Carolina environmental agencies, Duke Energy and others. [More information](#) on the coal ash spill.

## 2. Water

- Air
- Air Check Virginia
- Coastal Zone Management
- Enforcement
- Environmental Impact Review
- Land Protection & Revitalization
- Pollution Response & Preparedness
- Pollution Prevention
- Renewable Energy
- Water**
- Programs in Alphabetical Order

## 1. Programs

## 3. Water Quality Information & TMDLs

- Chesapeake Bay
- Clean Water Financing & Assistance
- Land Application & Beneficial Reuse
- Permitting & Compliance
- Stormwater Management
- Wastewater Assistance & Training
- Wastewater Engineering
- Water Quality Information & TMDLs**
- Water Supply & water Quantity
- Wetlands & Streams
- Laws, Regulations, & Guidance
- Public Notices
- Reports & Publications
- Forms
- Resources & Links
- Contacts

### Resources & Tools

Report Pollution  
Responding to air, water  
and waste pollution  
incidents



Air Quality Forecasting  
Ozone and particle  
pollution levels



eDMR Reporting  
Streamlining the  
management of



Map Viewer  
Discover Virginia's  
environment through  
the GIS data viewer



- 2008 Climate Change Commission Report
- Toxics Release Inventory Report

### Locations

- Central Office
- Blue Ridge Region
- Northern Regional Office
- Piedmont Regional Office
- Southwest Regional Office
- Tidewater Regional Office
- Valley Regional Office





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Management

TMDL

Water Quality Assessments

Water Quality Monitoring

Water Quality Standards

Watershed Roundtables

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Water Quality Information

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TMDL Implementation

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PCB TMDLs

No Discharge Zone Designations

TMDL Glossary

Frequently Asked Questions

Regulation

Contacts

## 2. TMDL Development

Stressor Analysis Reports

Draft TMDL Reports

Approved TMDL Reports

paired waters in every even year since individually describes segments of at exhibit violations of water quality e pollutant responsible for the violations, ource of the pollutant. Since 1998, DEQ ic input, to restore and maintain the water These plans are called "total maximum daily loads," or TMD water body can assimilate and still meet standards.

## 3. Approved TMDL Reports

## 1. TMDL

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# [www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/TMDL/TMDLDevelopment/ApprovedTMDLReports.aspx](http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/TMDL/TMDLDevelopment/ApprovedTMDLReports.aspx)



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## TMDL Reports

### Search for Approved TMDL Reports

To return all records, simply click the Search button without entering any criteria.

Waterbody Name

City/County

Major River Basin

Pollutant

EPA Approval Date (Year)

SWCB Approval Date (Year)

Enter  
receiving  
waters and  
click to  
search

### Approved TMDL reports

Displaying 6 results.

TMDL Project	Basin	City/County	Pollutant(s)	Comment document	Final report	EPA approval date	SWCB approval date	Comments
<a href="#">James River - Hopewell to Westover</a>	Lower James River	Charles City, Chesterfield, Hopewell, Petersburg, Prince George	E. Coli	-	<a href="#">Final report Modification</a>	07/10/2008 <a href="#">EPA rationale</a>	04/28/2009	
<a href="#">James River and Tributaries - Lower Piedmont Region</a>	Lower James River	Cumberland, Fluvanna, Goochland, Hanover, Louisa, Powhatan	E. Coli	-	<a href="#">Final report Modification</a>	08/11/2008 <a href="#">EPA rationale</a>	04/28/2009	
<a href="#">James River and Tributaries - City of Richmond</a>	Lower James River	Charles City, Chesterfield, Goochland, Hanover, Henrico, Hopewell, Powhatan, Prince George, Richmond City	E. Coli	-	<a href="#">Final report</a>	11/04/2010 <a href="#">EPA rationale</a>	06/29/2012	Bacteria TMDL development in 10 watersheds within the Lower James River basin.
<a href="#">James River, Warwick River</a>	Lower James River	Hampton, James City, Newport News, York	E. Coli Fecal Coliform Enterococci	-	<a href="#">Final report</a>	02/29/2008 <a href="#">EPA rationale</a>	04/28/2009	
<a href="#">James River (Gale River Watershed)</a>	Middle James River	Albemarle, Appomattox, Buckingham	E. Coli	-	<a href="#">Final report</a>	09/20/2007 <a href="#">EPA rationale</a>	07/31/2008	
<a href="#">James River Watershed (Lynchburg)</a>	Middle James River	Amherst, Bedford, Botetourt, Campbell, Lynchburg, Rockbridge	E. Coli	-	<a href="#">Final report Modification</a>	12/04/2007 <a href="#">EPA rationale</a>	07/31/2008	

List of  
applicable  
reports are  
returned

# Approved TMDL reports

Displaying 6 results.

TMDL Project	Basin	City/County	Pollutant(s)	Comment document	Final report	EPA approval date	SWCB approval date	Comments
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<a href="#">James River and Tributaries, City of Richmond</a>	Lower James River	Richmond City	E. Coli	-	<a href="#">Final report</a>	11/04/2010 <a href="#">EPA rationale</a>	08/29/2012	Bacteria TMDL development in 10 watersheds within the Lower James River basin.
<a href="#">James River, Warwick River</a>	Lower James River	Hampton, James City, Newport News, York	E. Coli Fecal Coliform Enterococci	-	<a href="#">Final report</a>			
<a href="#">James River (Slate River) Watershed</a>	Middle James River	Albemarle, Appomattox, Buckingham	E. Coli	-	<a href="#">Final report</a>	09/20/2007 <a href="#">EPA rationale</a>	07/31/2008	
<a href="#">James River Watershed (Lynchburg)</a>	Middle James River	Amherst, Bedford, Botetourt, Campbell, Lynchburg, Rockbridge	E. Coli	-	<a href="#">Final report Modification</a>	12/04/2007 <a href="#">EPA rationale</a>	07/31/2008	

Click for summary of watersheds and pollutants

OR  
Click for Final Report